

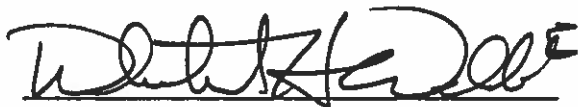
FEASIBILITY STUDY

Raleigh  
SR 1664 (Duraleigh Road)  
And  
SR 3009 (Edwards Mill Road)  
From SR 1670 (Blue Ridge Road)  
To Kiddshill Plaza Entrance  
Wake County  
U-2824

Prepared by  
Program Development Branch  
Division of Highways  
N. C. Department of Transportation



W. J. Watson, P.E.  
Highway Planning Engineer



Whitmell H. Webb, III, P.E.  
Head of Feasibility Studies

11/6/92

Date

Raleigh  
Duraleigh Road (SR 1664)  
And  
Edwards Mill Road (SR 3009)  
From Blue Ridge Road (SR 1670)  
To Kiddshill Plaza Entrance  
Wake County  
U-2824

I. GENERAL DESCRIPTION

This preliminary study describes proposed improvements to Duraleigh Road (SR 1664) and Edwards Mill Road (SR 3009) in Raleigh. It is proposed to widen Duraleigh Road from Blue Ridge Road (SR 1670) to Edwards Mill Road, a distance of approximately 0.2 miles. Further, it is proposed to widen Edwards Mill Road from a point 850 feet north of Duraleigh Road to the entrance to Kiddshill Plaza shopping center, a total length of 1.6 miles. Please see Figure 1 for the project location. A 5 lane curb and gutter cross section, 68 feet wide from face to face of curbs, on a 100 foot wide right of way is recommended for both roads.

On Duraleigh Road, north of Blue Ridge Road, the proposed widening should tie into and utilize, if possible, the existing curb and gutter on the northeast side. South of Blue Ridge Road, the widening should tie into the existing four lane median dividend cross section.

The widening on Edwards Mill Road will generally be symmetrical to the centerline of the existing road. Approximately 850 feet north of Duraleigh Road the widened section should tie into the existing curb and gutter section on Edwards Mill Road. At the northeast project terminal, the widening should be compatible with the existing curb and gutter section just north of the entrance to Kiddshill Plaza.

The estimated total cost, including right of way and utility adjustments, is \$6,400,000. It is estimated that there will be no residential relocatees and no business relocatees on this project.

This study is the initial step in the planning and design process for this project and is not the product of exhaustive environmental or design investigations. The purpose of the study is to describe the problem, recommend a treatment including costs, and identify potential problem areas that deserve consideration in the planning and design phases.

### III. RECOMMENDATIONS

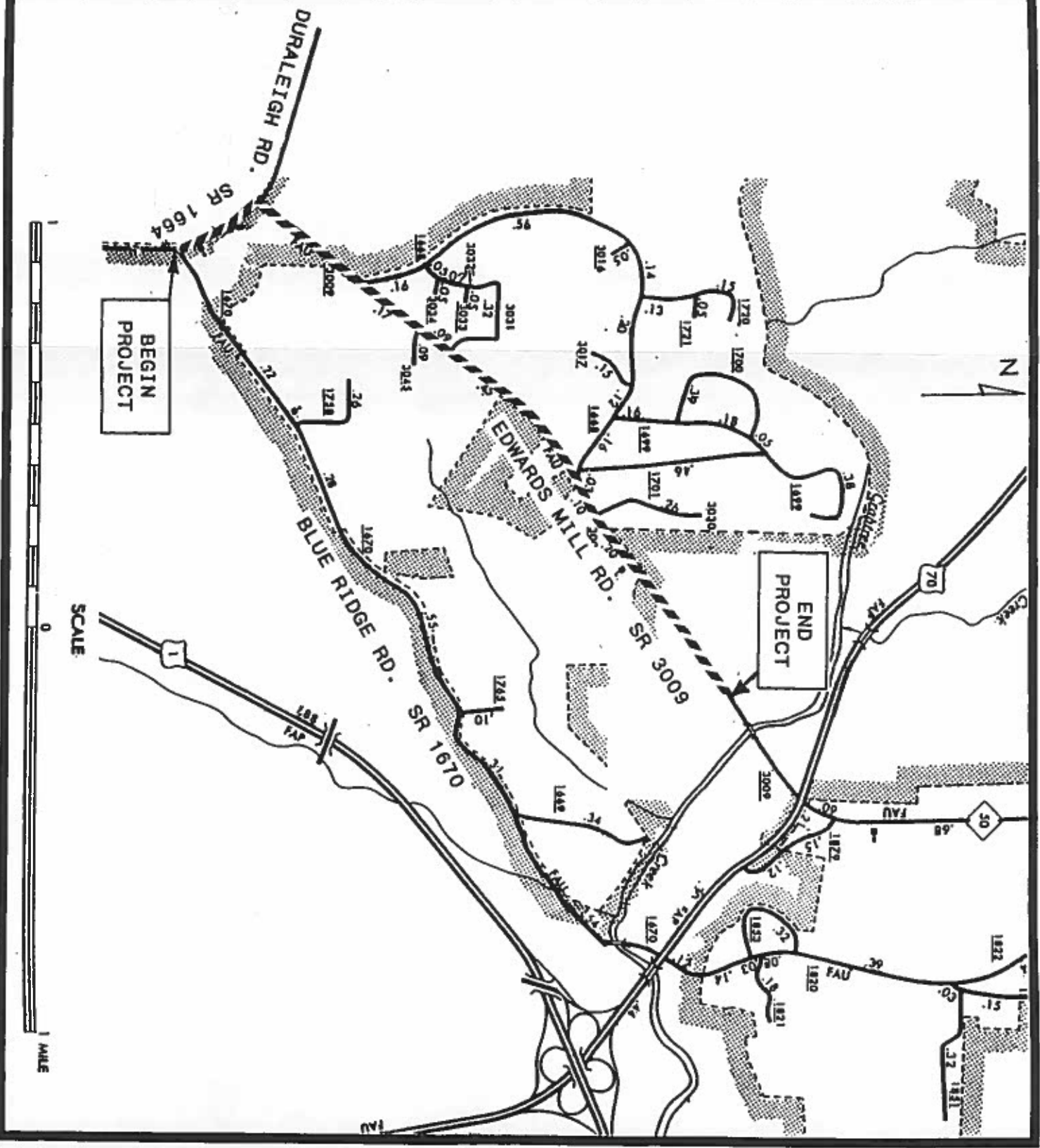
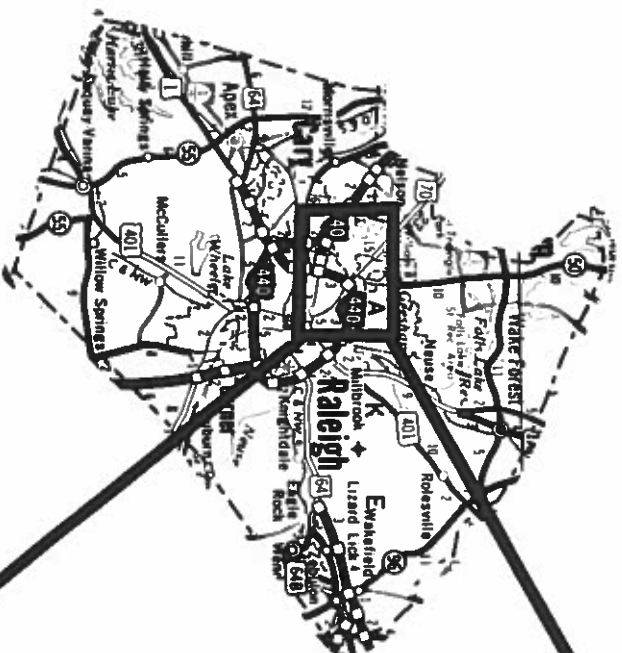
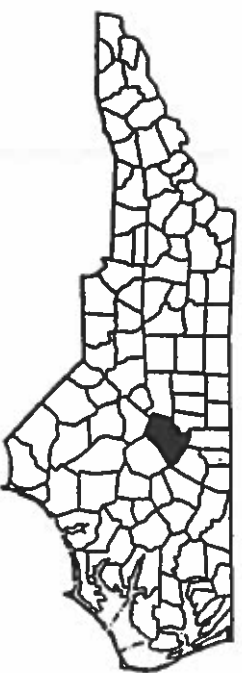
It is recommended to widen Duraleigh Road from Blue Ridge Road to Edwards Mill Road, a distance of approximately 0.2 miles. Further, it is proposed to widen Edwards Mill Road from a point 850 feet north of Duraleigh Road to the entrance to Kiddshill Plaza shopping center, a total length of 1.6 miles. Please see Figure 1 for the project location. A 5 lane curb and gutter cross section, 68 feet wide from face to face of curbs, on a 100 foot wide right of way is recommended for both roads. Wide outside lanes for bicycles have been requested by the NCDOT Bicycle Program and are recommended.

On Duraleigh Road the proposed widening should tie into and utilize, if possible, the existing curb and gutter on the northeast side. This widened section will be a five lane curb and gutter section and should tie into the existing curb and gutter section on Duraleigh Road north of Blue Ridge Road and tie into the four lane median dividend cross section on Duraleigh Road south of Blue Ridge Road. The location is shown on Figure 1. As a "Y - Line" improvement it is recommended that the widening on Duraleigh Road extend northwest of Edwards Mill Road approximately 700 feet and tie into the existing multilane curb and gutter section. The cost of widening this segment is included in the total project cost as reported below.

The widening on Edwards Mill Road will generally be symmetrical to the centerline of the existing road. Approximately 850 feet north of Duraleigh Road the widened section should tie into the existing 66 foot wide curb and gutter section on Edwards Mill Road which was built by the City of Raleigh. At the northeast project terminal, the widening should be compatible with the existing 80 foot wide, 6-lane, curb and gutter section just north of the entrance to Kiddshill Plaza.

It is estimated that there will be no residential relocatees and no business relocatees on this project. The total cost, for right of way and construction is estimated to be \$6,400,000 as follows:

Construction.....	\$ 3,000,000
Right of Way.....	3,400,000
Total Cost .....	\$ 6,400,000



FEASIBILITY STUDIES UNIT			
FIGURE 1. LOCATION MAP			
SR 1664 (DURALEIGH ROAD)			
AND			
SR 3009 (EDWARDS MILL ROAD)			
RALEIGH		WAKE COUNTY	
U-2824	DIVISION 5	FIGURE 1.	